

M.V.TWOSUCH CONDITIONS OF LOADING ASSIGNMENT ONE

CONDITION 2 Departure to fishing 100% water and fuel Full crew & stores.

(Information supplied courtesy Marine Safety, WA Department for Planning and Infrastructure. Extracts by Ranger Hope © 2008).

Item	Tonnes	V.C.G.	Vert. Moment	L.C.G. +/-	Long. Moment	F.S.N.
Fresh water	8.9					
Fwd FO P&S	9.0					-
Fwd D/B FO P&S	13.10					-
Aft D/B FO P&S	12.8					-
ER Wing FO P&S	12.6					-
Lub Oil	0.55					-
Crew & Effects	1.0	4.0		+6.0		-
Stores	4.0	3.0		-		-
Provisions	2.0	2.0		+7.0		-
Deadweight						
Lightship	148.46		516.61		-96	-
Displacement						
K.G 3.48m(Light)	(Loaded)		L.C.G. -0.65	(Loaded)		
F.S.N. 0m			Safe K.G.f. ?			
Kgf 3.48m			Safe L.C.G. ?			

**Has the vessel SAFE or UNSAFE K.G.fluid AND L.C.G in this loading condition?
Show me the Curves of limiting KG & LCG. Answers**

CONDITIONS OF LOADING M.V.TWOSUCH

CONDITION 3 Fishing 20% Catch. 17% Fuel, 21% Water in equalised P&S tanks. FSE in part filled tanks.

Item	Tonnes	V.C.G.	Vert. Moment	L.C.G. +/-	Long. Moment	F.S.N.
Fresh water	1.90					
Fwd FO P&S	-					
Fwd D/B FO P&S	-					
Aft D/B FO P&S	-					
ER Wing FO P&S	8.00					
Lub Oil	0.10					
Crew & Effects	1.00	4.0		+6.0		
Stores	2.00	3.0		-		
Provisions	0.40	2.0		+7.0		
Brine Tank	3.00	4.4		-5.5		
Cod end load	0.50	11.4		-5.5		
Catch	4.80	0.60		+0.5		
Deadweight						
Lightship	148.46		516.61		-96	-
Displacement						
K.G 3.48m(light)	(Loaded)		L.C.G -0.65	(Loaded)		
F.S.N. 0m			Safe K.G.f. ?			
Kgf 3.48m			Safe L.C.G. ?			

Has the vessel SAFE or UNSAFE K.G.fluid AND L.C.G in this loading condition?

Show me the Curves of limiting KG & LCG

Answers

CONDITIONS OF LOADING M.V.TWOSUCH

CONDITION 4 Fishing 20% Catch. 10% Fuel, 90% Water in equalised P&S tanks. FSE in part filled tanks.

Item	Tonnes	V.C.G.	Vert. Moment	L.C.G. +/-	Long. Moment	F.S.N.
Fresh water	8.00					
Fwd FO P&S	-					
Fwd D/B FO P&S	-					
Aft D/B FO P&S	-					
ER Wing FO P&S	4.40					
Lub Oil	0.10					
Crew & Effects	1.00	4.00		+6.00		
Stores	2.00	3.00		-		
Provisions	0.40	2.00		+7.00		
Catch	4.80	2.60		+2.40		
Deadweight						
Lightship	148.46		516.61		-96	
Displacement						
K.G 3.48m(light)	(Loaded)		L.C.G -0.65	(Loaded)		
F.S.N. 0m			Safe K.G.f. ?			
Kgf 3.48m			Safe L.C.G. ?			

**Has the vessel SAFE or UNSAFE K.G.fluid AND L.C.G in this loading condition?
 Show me the **Curves of limiting KG & LCG** **Answers****

CONDITIONS OF LOADING M.V.TWOSUCH

CONDITION 5 Fishing 60% Catch. 20% Fuel, 90% Water in equalised P&S tanks. FSE in part filled tanks.

Item	Tonnes	V.C.G.	Vert. Moment	L.C.G. +/-	Long. Moment	F.S.N.
Fresh water	8.00					
Fwd FO P&S	-					
Fwd D/B FO P&S	-					
Aft D/B FO P&S	-					
ER Wing FO P&S	9.00					
Lub Oil	0.10					
Crew & Effects	1.00	4.00		+6.00		
Stores	2.00	3.00		-		
Provisions	0.40	2.00		+7.00		
Catch	18.00	1.80		+0.50		
Deadweight						
Lightship	148.46		516.61	-0.65		-
Displacement						
K.G 3.48m(light)	(Loaded)		L.C.G. -96m	(Loaded)		
F.S.N. 0m			Safe K.G.f. ?			
Kgf 3.48m			Safe L.C.G. ?			

**Has the vessel SAFE or UNSAFE K.G.fluid AND L.C.G in this loading condition?
 Show me the **Curves of limiting KG & LCG** **Answers****

CONDITIONS OF LOADING M.V.TWOSUCH

CONDITION 6 Arrival in port 100% Catch. 10% Fuel, 38% Water in equalised P&S tanks. FSE in part filled tanks.

Item	Tonnes	V.C.G.	Vert. Moment	L.C.G. +/-	Long. Moment	F.S.N.
Fresh water	3.40					
Fwd FO P&S	-					
Fwd D/B FO P&S	-					
Aft D/B FO P&S	-					
ER Wing FO P&S	4.40					
Lub Oil	0.10					
Crew & Effects	1.00	4.0		+6.0		
Stores	1.00	3.0		-		
Provisions	0.40	2.0		+7.0		
Catch	24.00	2.6		+0.5		
Deadweight						
Lightship	148.46	3.48	516.61	-0.65	-96	-
Displacement						
K.G 3.48m(light)	(Loaded)		L.C.G.	(Loaded)		
F.S.N. 0m			Safe K.G.f. ?			
Kgf 3.48m			Safe L.C.G. ?			

Has the vessel SAFE or UNSAFE K.G.fluid AND L.C.G in this loading condition?

Show me the Curves of limiting KG & LCG

Answers

CONDITIONS OF LOADING M.V.TWOSUCH

CONDITION 7 Fishing 20% Catch. 20% Fuel, 47% Water in equalised P&S tanks. Stalled winch load. FSE in part tanks.

Item	Tonnes	V.C.G.	Vert. Moment	L.C.G. +/-	Long. Moment	F.S.N.
Fresh water	4.20					
Fwd FO P&S	-					
Fwd D/B FO P&S	-					
Aft D/B FO P&S	-					
ER Wing FO P&S	9.00					
Lub Oil	0.10					
Crew & Effects	1.00	4.00		+6.0		
Stores	2.00	3.00		-		
Provisions	0.40	2.00		+7.0		
Brine Tank	3.00	4.40		-5.5		
Catch	4.80	2.60		+0.5		
Winch Load	2.50	5.50		-10.5		
Deadweight						
Lightship	148.46		516.61		-96	-
Displacement						
K.G 3.48m(light)	(Loaded)		L.C.G. -0.65	(Loaded)		
F.S.N. 0m			Safe K.G.f. ?			
Kgf 3.48m			Safe L.C.G. ?			

**Has the vessel SAFE or UNSAFE K.G.fluid AND L.C.G in this loading condition?
Show me the Curves of limiting KG & LCG**

Answers

CONDITIONS OF LOADING M.V.TWOSUCH

CONDITION 8 Fishing 20% Catch 20% Fuel, 90% in equalised P&S tanks. Water & Fouled Net

Item	Tonnes	V.C.G.	Vert. Moment	L.C.G. +/-	Long. Moment	F.S.N.
Fresh water	8.00					
Fwd FO P&S	-					
Fwd D/B FO P&S	-					
Aft D/B FO P&S	-					
ER Wing FO P&S	9.00					
Lub Oil	0.10					
Crew & Effects	1.00	4.0		+ 6.0		
Stores	2.00	3.0		-		
Provisions	0.40	2.0		+ 7.0		
Brine tank	3.00	4.4		- 5.5		
Catch	4.80	2.6		+ 0.5		
Warp load	0.50	7.0		+ 1.0		
Deadweight						
Lightship	148.46		516.61		-96	-
Displacement						
K.G 3.48m(light)	(Loaded)		L.C.G. -0.65	(Loaded)		
F.S.N. 0m			Safe K.G.f. ?			
Kgf 3.48m			Safe L.C.G. ?			

**Has the vessel SAFE or UNSAFE K.G.fluid AND L.C.G in this loading condition?
 Show me the Curves of limiting KG & LCG Answers**